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ABSTRACT OF THE DISCLOSURE

An optical waveguide includes a partial cylindrical portion, and a plurality of end portions. The partial cylindrical portion has an elongated profile, and is formed of a material transparent to light propagating along the partial cylindrical portion. The end portion has an approximately partial spherical profile, smoothly joins the partial cylindrical portion, and is formed of the same material as the material of the partial cylindrical portion, so that the light propagates along the partial cylindrical portion and the end portions while repeating total reflections at a boundary surface contouring the partial cylindrical portion and the end portions.